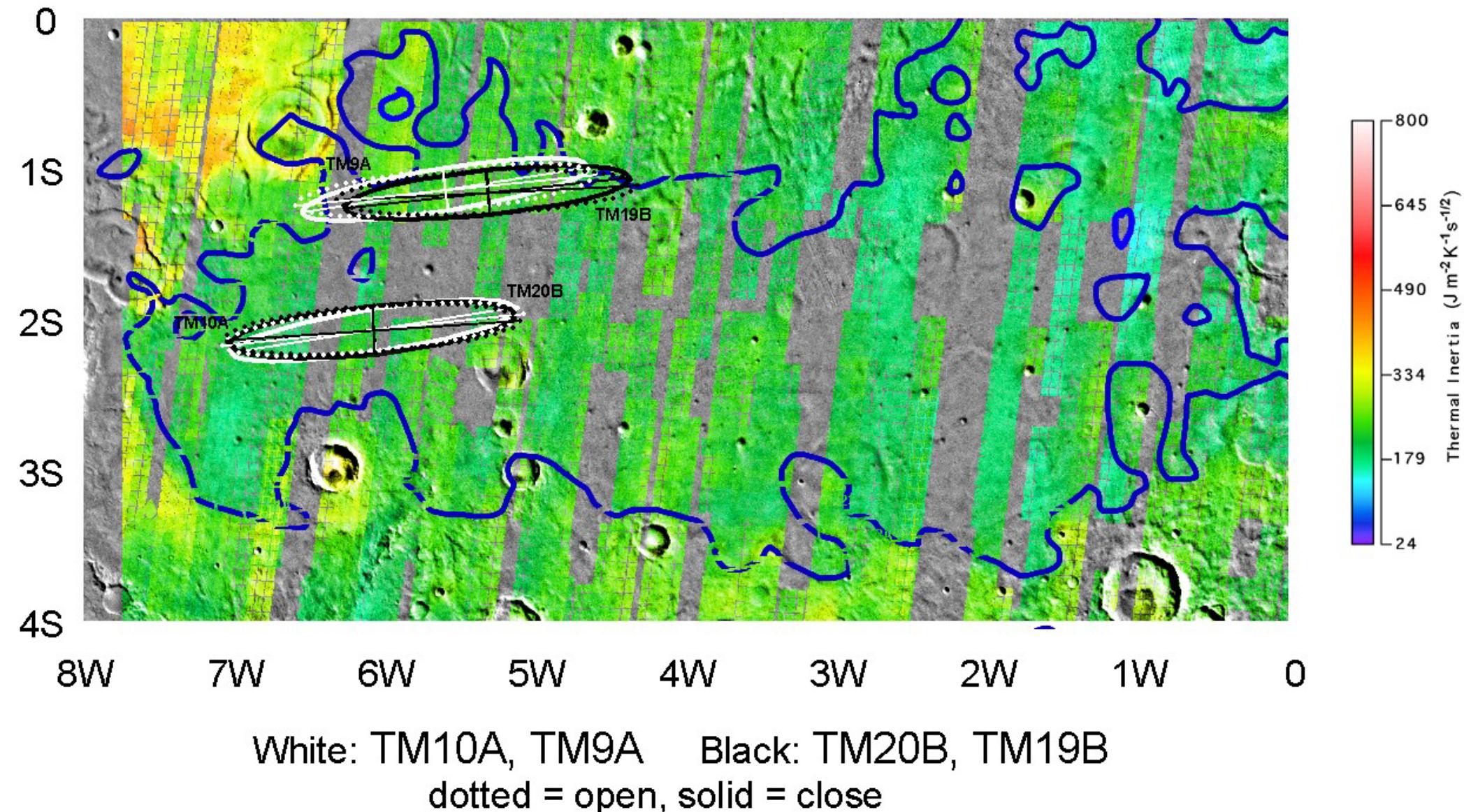
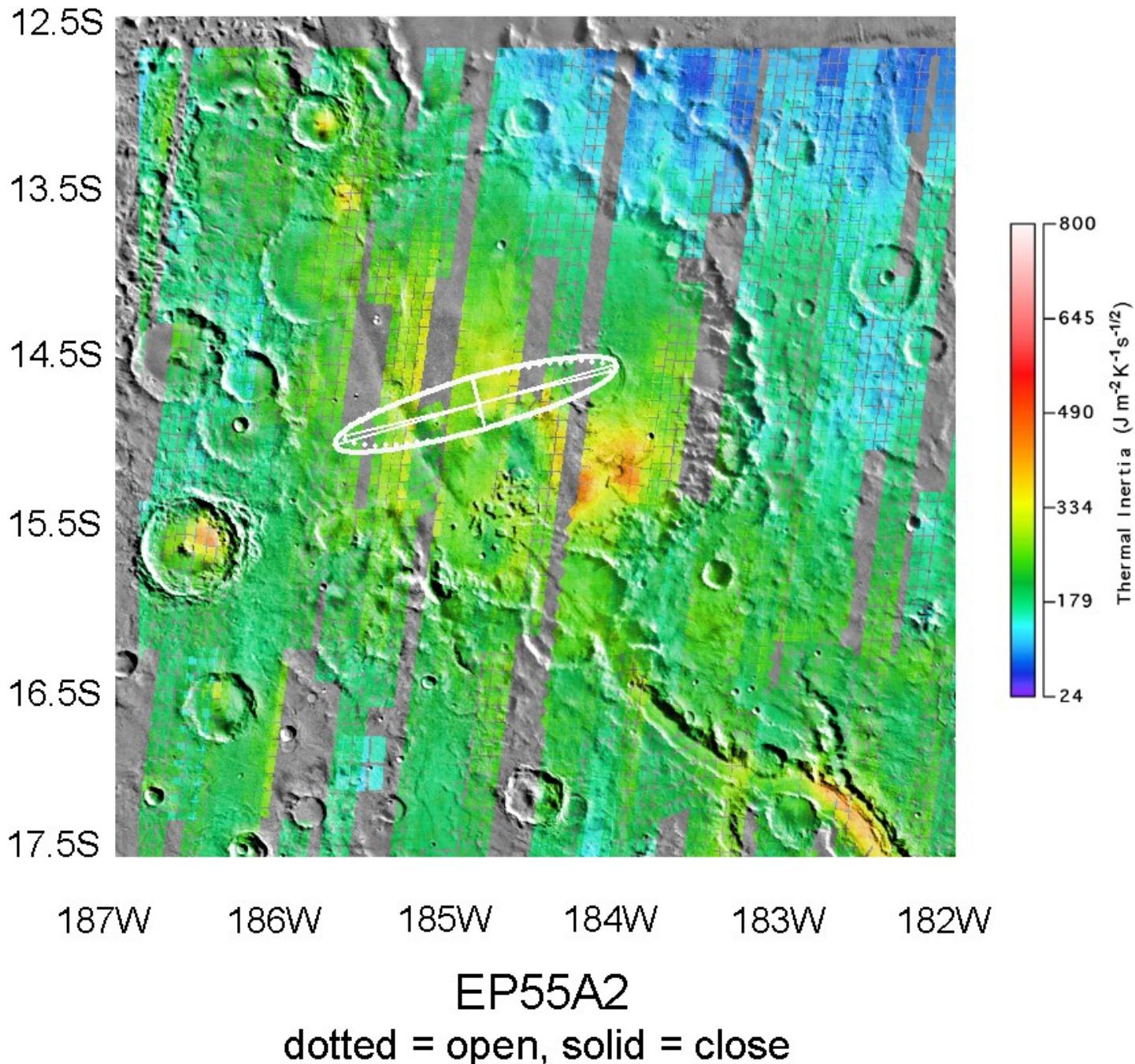


# Hematite Site



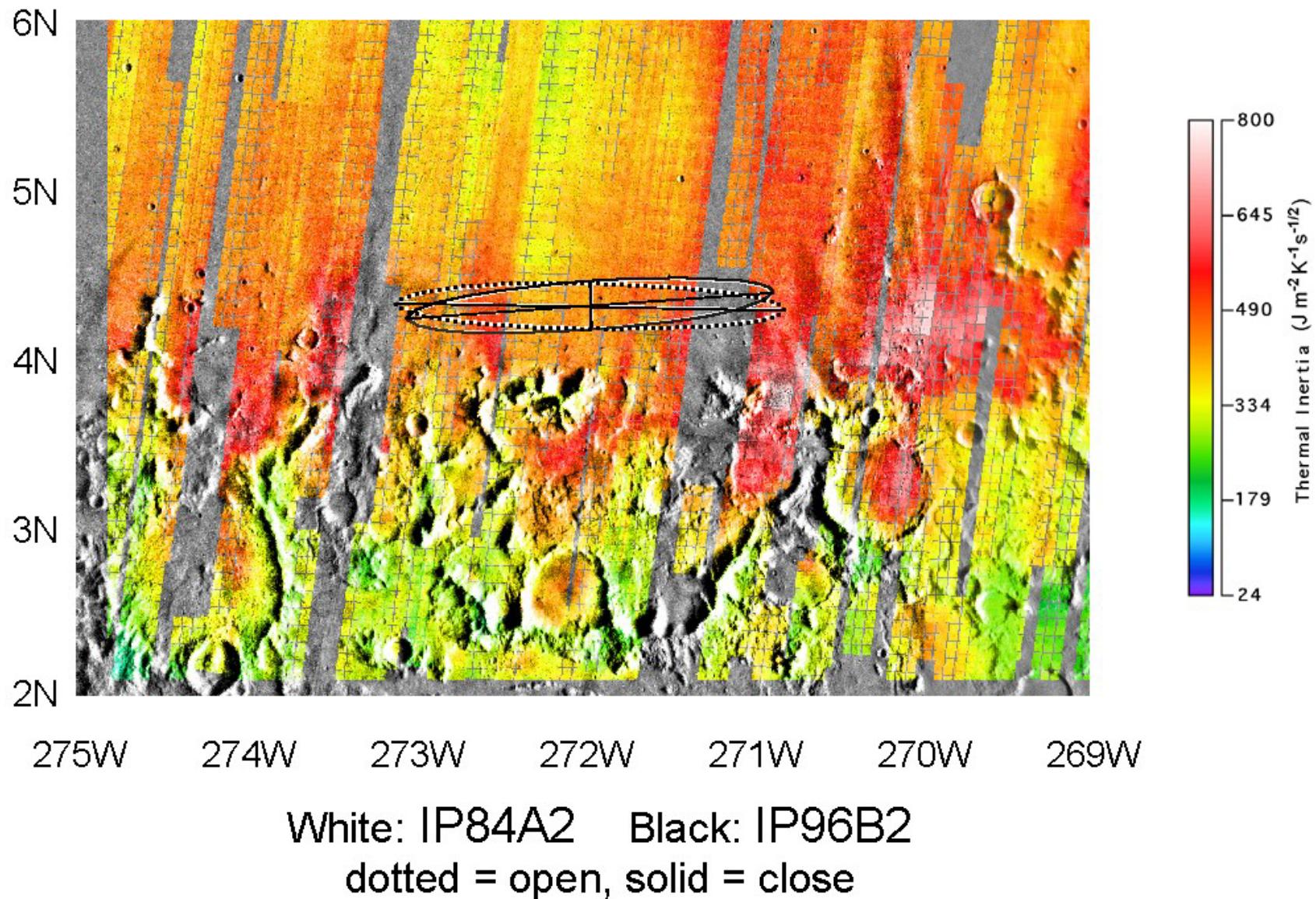
- ◆ Albedo and thermal inertia values are slightly lower than anywhere we have landed; could be a similar surface, but w/less dust and/or less induration and/or less rocks.

# Gusev Crater



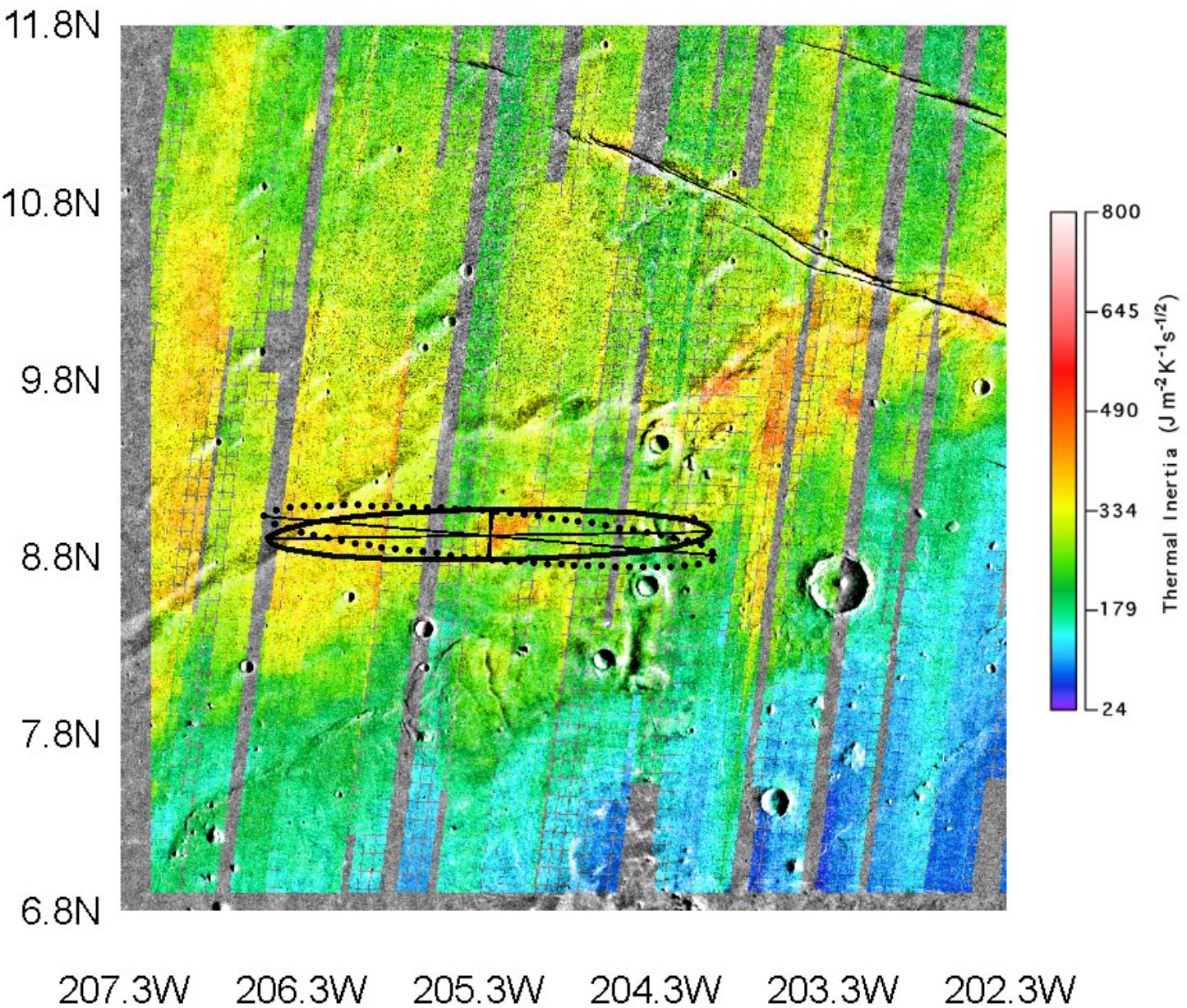
- ◆ High albedo areas: dust cover at least few  $\mu\text{m}$  thick.
- ◆ Lower thermal inertias: most likely a thermally intermediate (few mm) dust cover atop...
- ◆ Higher-thermal inertias: less dust; possibly rocky debris, impact melt, volcanic infilling.

# Isidis Planitia



- ◆ Fairly high albedos: most likely a few  $\mu\text{m}$  thick dust cover.
- ◆ High thermal inertias: highest average of all ellipses, values up to 1.5 x Pathfinder values; implications are uncertain.

# Athabasca

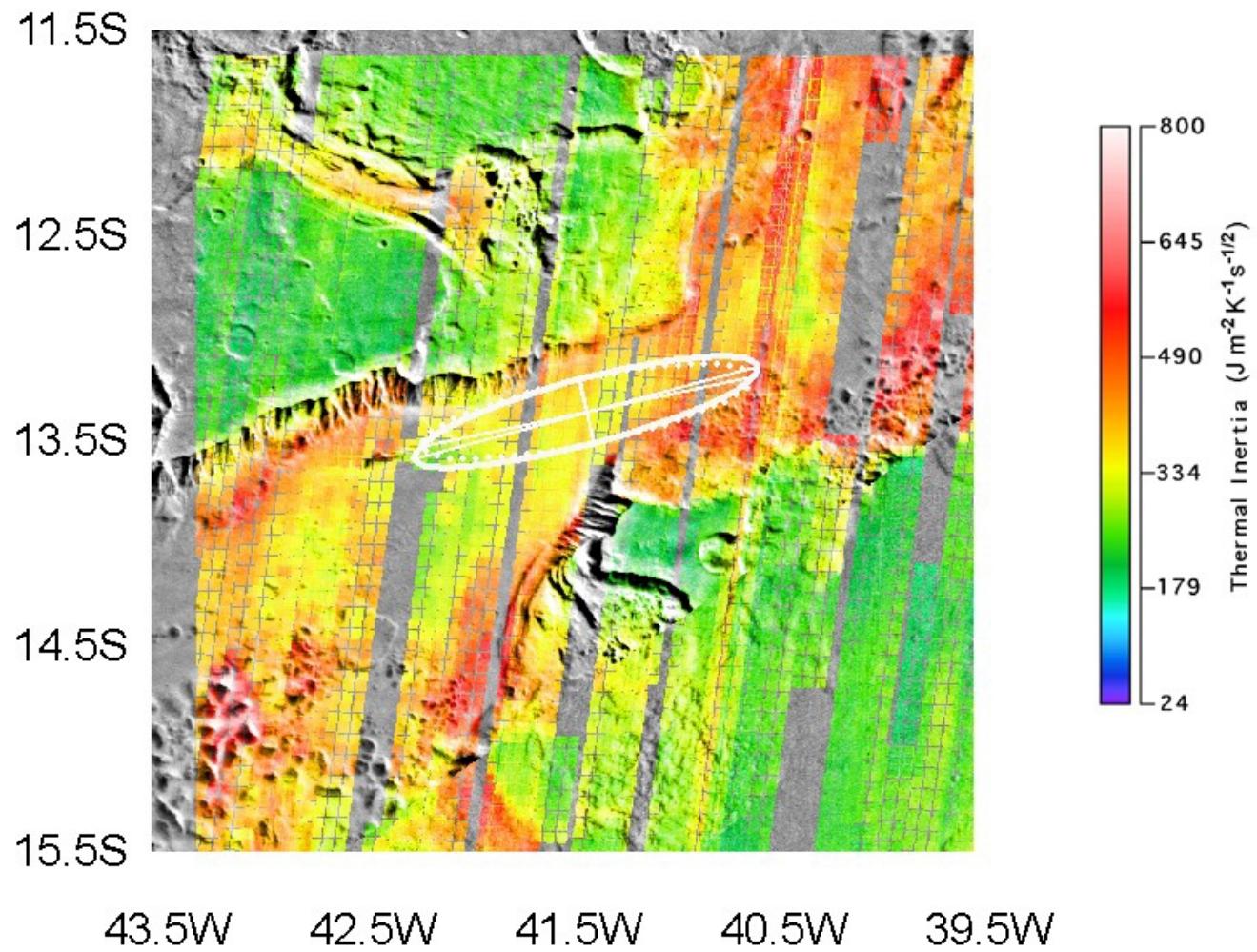


EPB2

dotted = open, solid = close

- ◆ High albedos: highest ave of all ellipses; dust cover at least a few  $\mu\text{m}$  thick everywhere.
- ◆ Lower thermal inertias: most likely a thermally intermediate (few mm) dust cover atop...
- ◆ Higher thermal inertias: > Pathfinder, could be more induration or rocks.

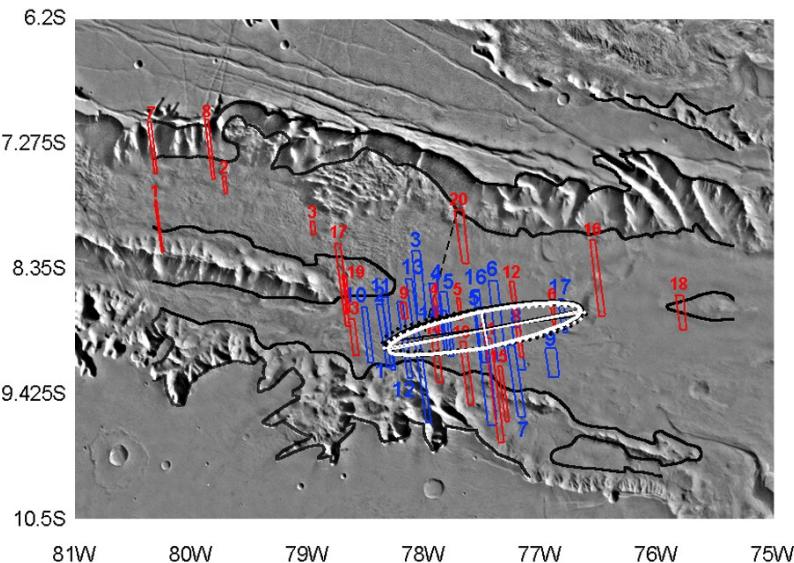
# Eos Chasma



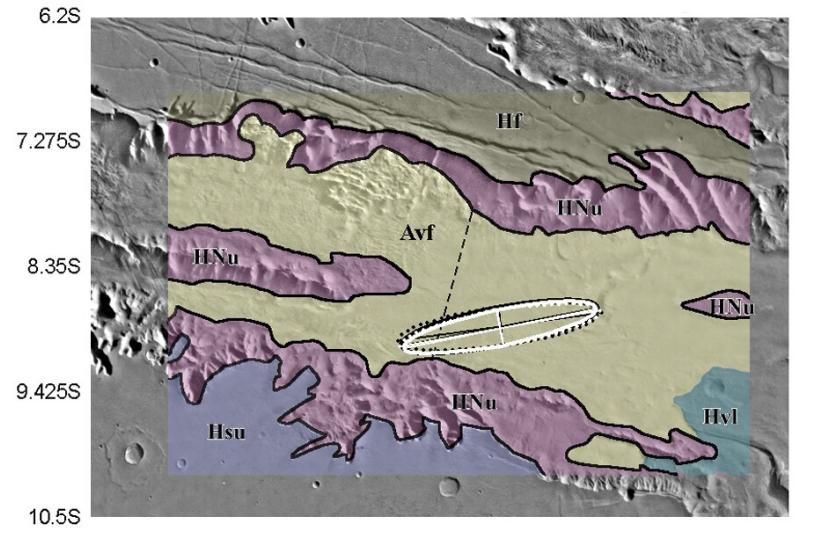
VM41A2  
dotted = open, solid = close

- ◆ Low albedos: little or no dust cover.
- ◆ High thermal inertias: values up to 1.7 x Pathfinder; most likely exposed, rocky terrain.
- ◆ Thermal inertia values increase across ellipse to NE; perhaps due to location of ellipse in canyon bottleneck.

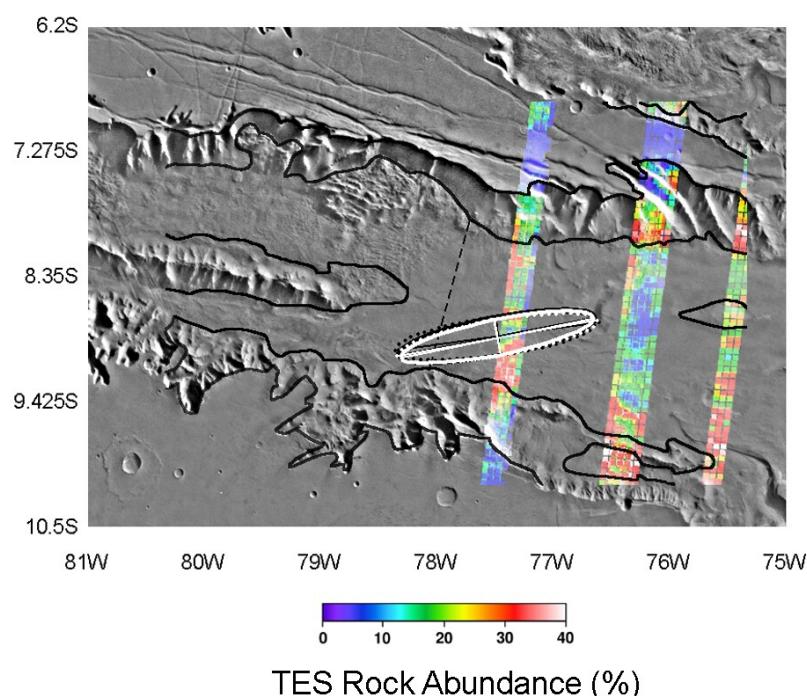
# Melas Chasma



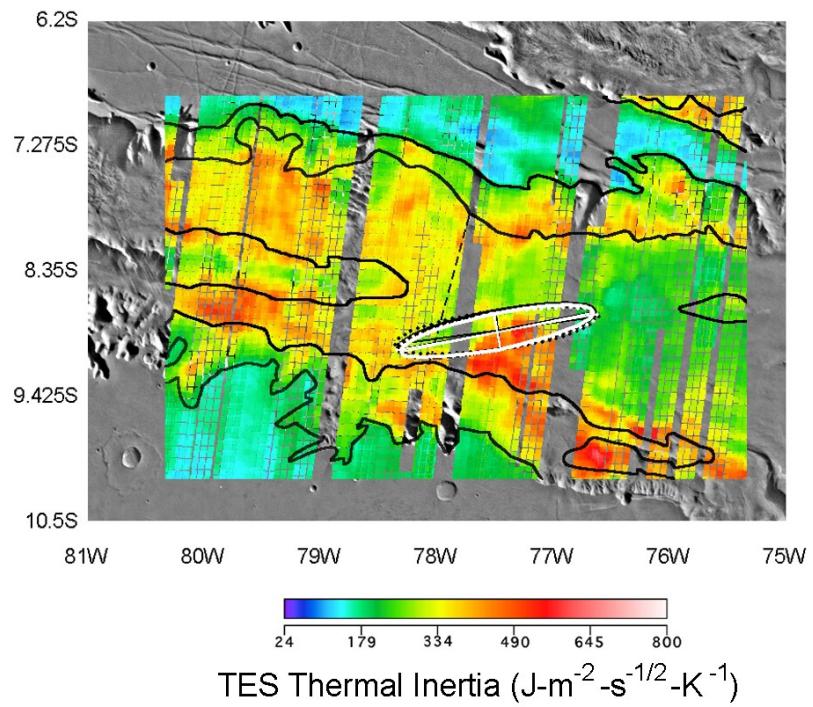
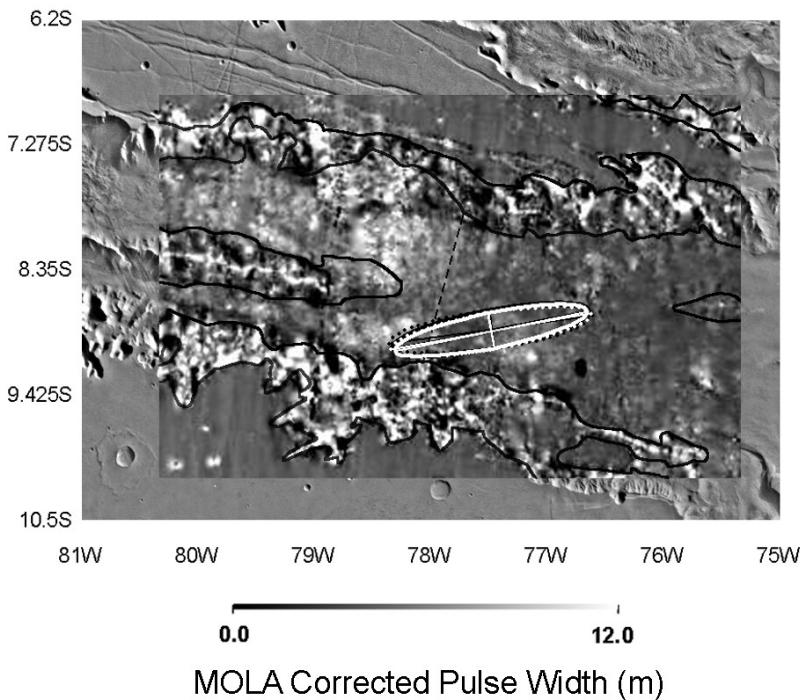
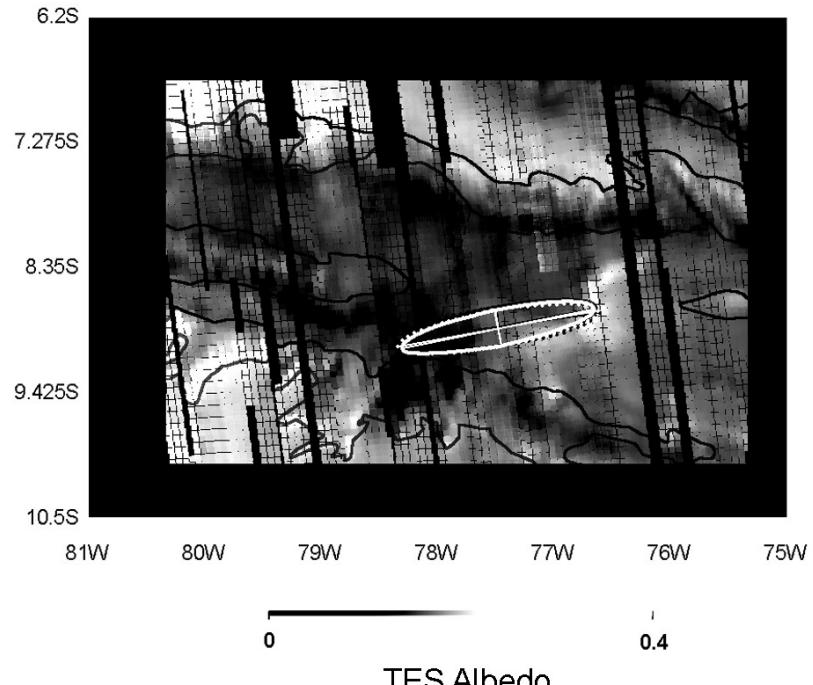
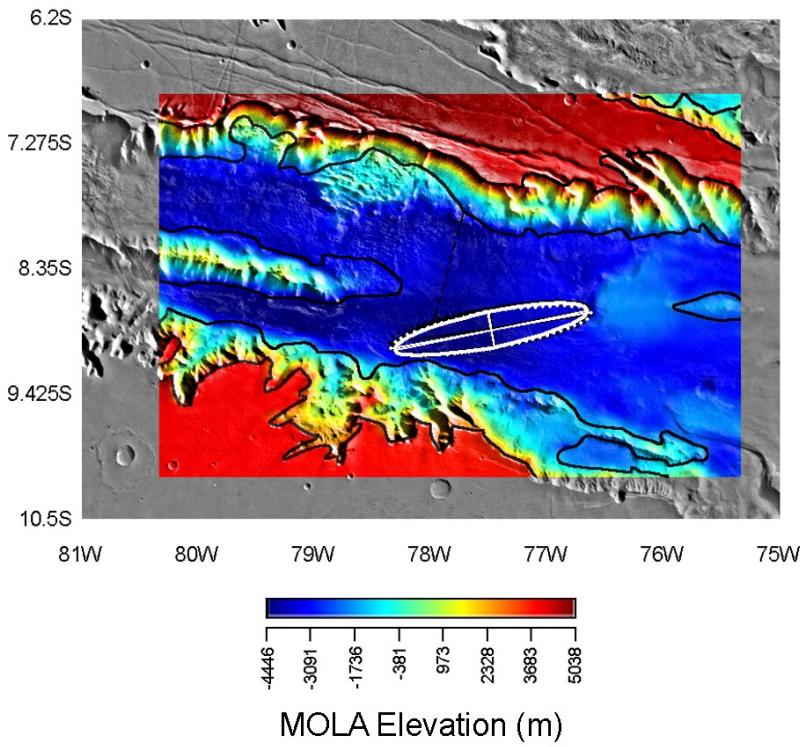
MOC Images



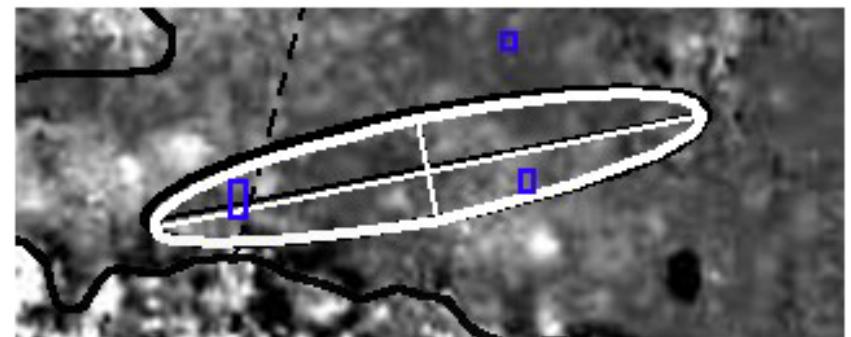
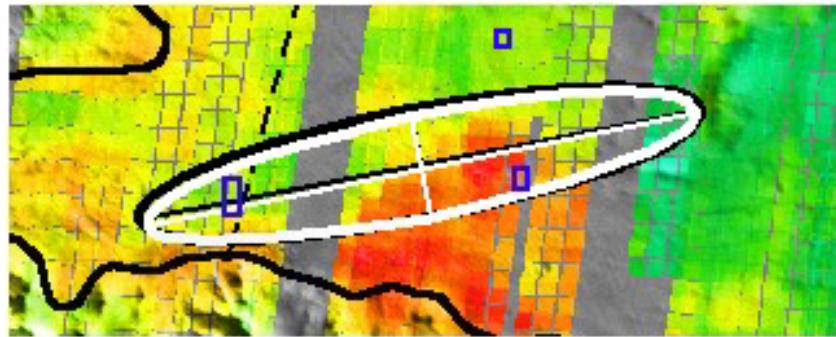
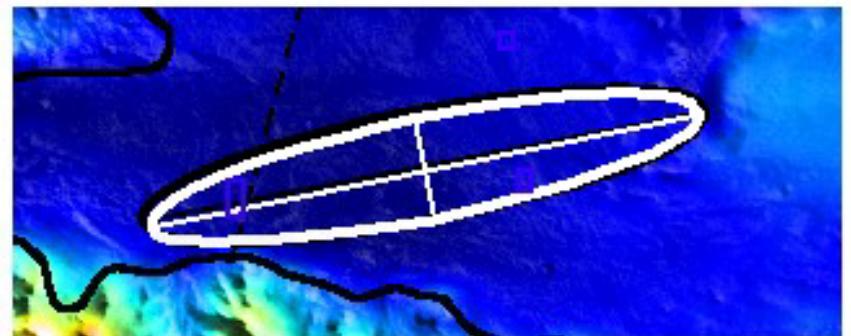
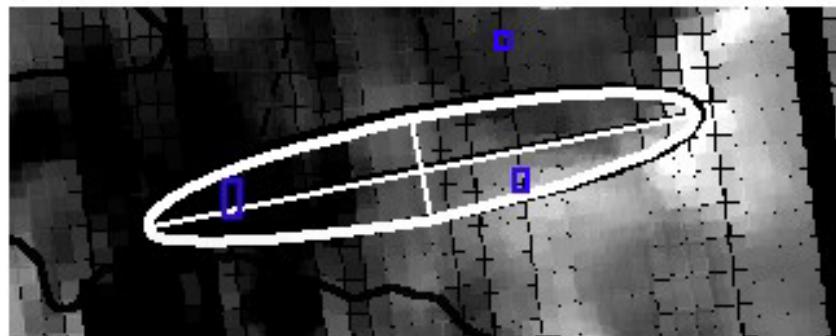
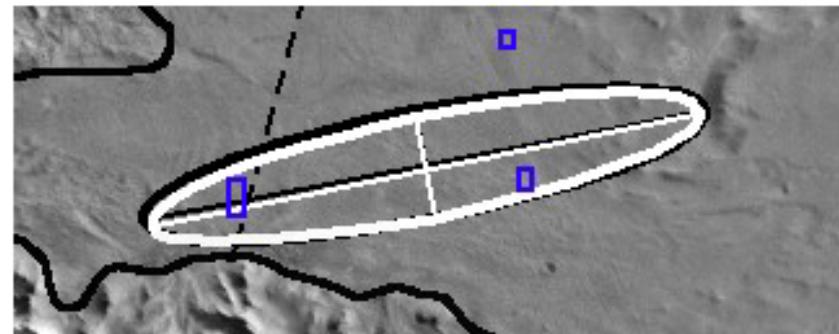
Geology



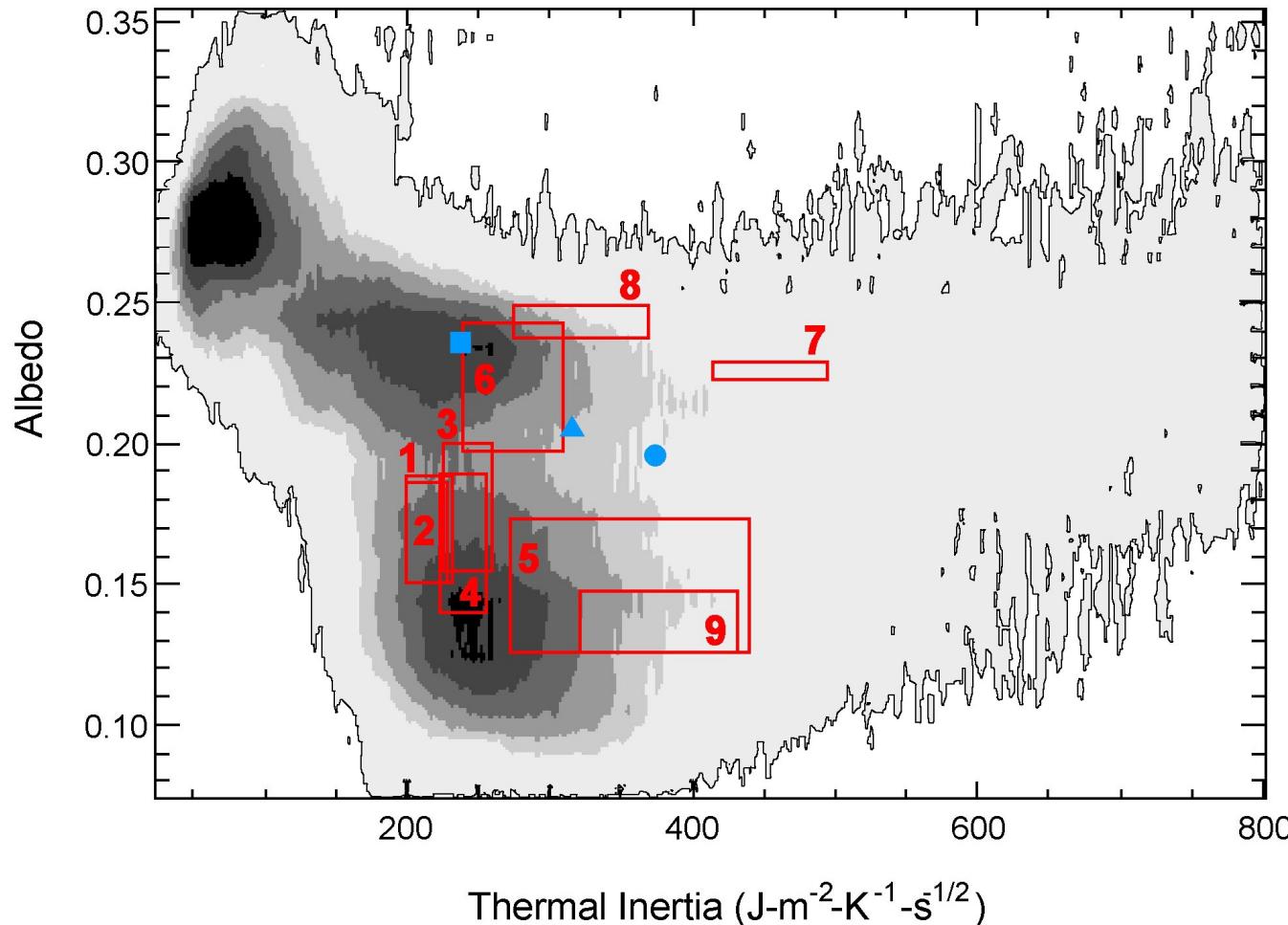
# Melas Chasma



# Melas Ellipse



# Statistics



2D grayscale histogram of global A and I. Red boxes represent  $1\sigma$  about the mean A and I of the MER landing site finalists and backups. Blue symbols represent past landing sites.

Hematite Sites: **1** = TM20B, **2** = TM10A, **3** = TM9A, **4** = TM19B

Melas Chasma: **5** = VM53A/B

Gusev Crater: **6** = EP55A

Isidis Planitia: **7** = IP84A/IP96B

Athabasca: **8** = EP49B

Eos Chasma: **9** = VM41A

Viking Lander 1: Triangle ▲

Viking Lander 2: Square ■

Pathfinder: Circle ●